

ENGINEERING CHANGE NOTICE
DART AEROSPACE LTD

Date: 14.12.17	Job No.: D350-591	ADR Yes/No: N	ADR Date: KJ	ECN #: 14- 670
Product Name: Heli Access Steps		Created By: AS	Approved By: AP	

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	Y	NF	
Production Manager / Coord.	Y	/LL/MF	
Purchasing Coord.	N	CL	
Production Engineering Coord.	Y	DD/JLM	
Production Engineering Coord.	N	DL	
Customer Order Processing	N	RM	

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
DQA / QA Coord.	Y	PS/ED	
QC Coordinator	Y	PD	
Customer Support	Y	SW/LM	
Customer Technical Support	Y	MB/HS	
Marketing Manager	Y	KO/SL	
Sales Support Manager	Y	CP	

Reason for Change:

To facilitate fastening the D350-591-133 maintenance steps to the D350-591-213/-214 Heli Acess Step kits

Documents Affected:

Release DSI 9712 Rev A

IF APPLICABLE: NCR: _____ PAR: 14-373 CAR: _____ CIR: _____ URF: _____

PAPERWORK UPDATE PARTS MUST COMPLY PREVIOUS PARTS SATISFACTORY

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3	Notify Augusta Westland	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	N			
6	Update Master Document List (MDL)	Y	MB	Rev K	
7	Update Document Record (DR)	N			
8	Update Product Compatability Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	N			
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	Y	KJ		
12	Update Product Specification Files (Bluefiles)	Y	KJ		14.12.17
13	Update Approved/Preliminary Dwg PDF Files	Y	KJ		14.12.17
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	Y	KJ		14.12.17
17	Update / Verify Airworthiness Release Certificate Database	Y	KJ	#20	14.12.17
18	Create / Update Change Record Form / Item Card Database	Y	KJ	See Below	14.12.17
19	Create / Update Packaging Process Plan (PPP)	Y	KJ		14.12.17
20	Red Decals required on Packaging Process Plan (PPP)?	Y	KJ		14.12.17
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	Y	KJ		14.12.17
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	Y	KJ		14.12.17
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

Description / Action:

Item 18: D350-591-133/-213/-214 at CHG004 &DSI 9712-011 at CHG001

D350-591-133/-213/-214 kits in stock and in progress should be reworked to CHG004.

all wfl updated 15.01.18
all gfl updated
128194
128195 ✓

ECN Verified & Complete: _____ Date: _____

ENGINEERING CHANGE NOTICE
DART AEROSPACE LTD

1246123 MPP

Date:	14.12.17	Job No.:	ADR Yes/No:	N	ADR Date:		ECN #:	14- 670
Product No.:	D350-591		Created By:	KJ	Approved By:			
Product Name:	Heli Access Steps		Checked By:	AS				

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	Y	NF	
Production Manager / Coord.	Y	LL/MF	
Purchasing Coord.	N	CL	
Production Engineering Coord.	Y	DD/JLM	
Production Engineering Coord.	N	DL	
Customer Order Processing	N	RM	

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
DQA / QA Coord.	Y	PS/ED	
QC Coordinator	Y	PD	
Customer Support	Y	SW/LM	
Customer Technical Support	Y	MB/HS	
Marketing Manager	Y	KO/SL	
Sales Support Manager	Y	CP	

Reason for Change:

To facilitate fastening the D350-591-133 maintenance steps to the D350-591-213/-214 Heli Acess Step kits

Documents Affected:

Release DSI 9712 Rev A

IF APPLICABLE: NCR: _____ PAR: 14-373 CAR: _____ CIR: _____ URF: _____

PAPERWORK UPDATE

PARTS MUST COMPLY

PREVIOUS PARTS SATISFACTORY

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3	Notify Augusta Westland	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	N			
6	Update Master Document List (MDL)	Y	MB	Rev K	
7	Update Document Record (DR)	N			
8	Update Product Compatability Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	N			
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	Y	KJ		
12	Update Product Specification Files (Bluefiles)	Y	KJ		
13	Update Approved/Preliminary Dwg PDF Files	Y	KJ		
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	Y	KJ		
17	Update / Verify Airworthiness Release Certificate Database	Y	KJ	#20	
18	Create / Update Change Record Form / Item Card Database	Y	KJ	See Below	
19	Create / Update Packaging Process Plan (PPP)	Y	KJ		
20	Red Decals required on Packaging Process Plan (PPP)?	Y	KJ		
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	Y	KJ		
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	Y	KJ		
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

Description / Action:

Item 18: D350-591-133/-213/-214 at CHG004 &DSI 9712-011 at CHG001

D350-591-133/-213/-214 kits in stock and in progress should be reworked to CHG004.

D350-591-133 wip#120452

D350-591-213 #128194 Greg
D350-591-214 #128195

wip#125521
214-125522
MF 12-23

ECN Verified & Complete: _____ Date: _____

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-591 REV. G AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-591 REV. 3
REF TCCA STC: SH92-6
REF FAA STC: SH967NE

1.0 Purpose

It has come to DART's attention that it may be difficult to fasten the D350-591-133 Aft Maintenance Step and D350-591-213/-214 Heli-Access-Step Installations to the forward crosstube due to variations between crosstubes. For this reason, DART is adding the D3338-1 Mounting Lug to the D350-591-133 Aft Maintenance Step and D350-591-213/-214 Heli-Access-Step Kits at CHG 004 and later.

For D350-591-133 Aft Maintenance Step and D350-591-213/-214 Heli-Access-Step Kits at CHG 003 and earlier, DSI 9712-011 Mounting Lug Kit can be procured from DART. The kit contains all parts to upgrade a single step kit.

2.0 Installation

- 2.1 It is acceptable to install the D3338-1 Mounting Lug in lieu of the D2230-1 Mounting Lug as required to reduce the gap between step and the forward crosstube in accordance with the figures of this service instruction.
- 2.2 The height to set up the D350-591-133 Maintenance Step has been revised from 7.0in to 6.0in ± 1.0in to provide more flexibility. See sheet 2 of this service instruction.
- 2.3 In all other respects, install the D350-591-133 Aft Maintenance Step and D350-591-213/-214 Heli-Access-Steps in accordance with Section 3.1 of Installation Instructions D350-591 or Section 32.1 of Instructions for Continued Airworthiness ICA-D350-591.

3.0 Parts List Change

The following additional part is provided with D350-591-133 Aft Maintenance Step and D350-591-213/-214 Heli-Access-Steps at CHG 004:

Qty -133	Qty -213	Qty -214	Part Number	Description
X			D350-591-133	Heli-Access-Step™, Aft Maintenance Step
	X		D350-591-213	Heli-Access-Step™, Short Step – High Skid, LH
		X	D350-591-214	Heli-Access-Step™, Short Step – High Skid, RH
1	1	1	D3338-1	MOUNTING LUG (ADD)

4.0 DSI 9712-011 Mounting Lug Kit Parts List

For existing D350-591-133 Aft Maintenance Steps and D350-591-213/-214 Heli-Access-Steps at CHG 003 or earlier, one DSI 9712-011 kit upgrades one step installation:

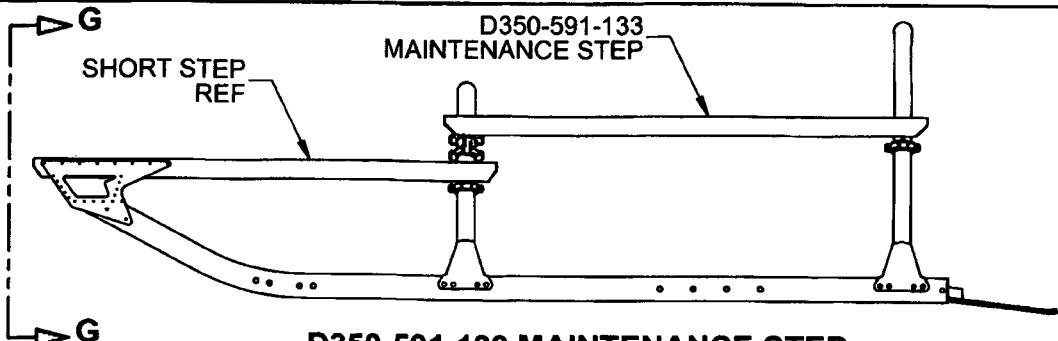
Qty -011	Part Number	Description
X	DSI 9712-011	Mounting Lug Kit
1	D3338-1	MOUNTING LUG

5.0 Weight and Balance

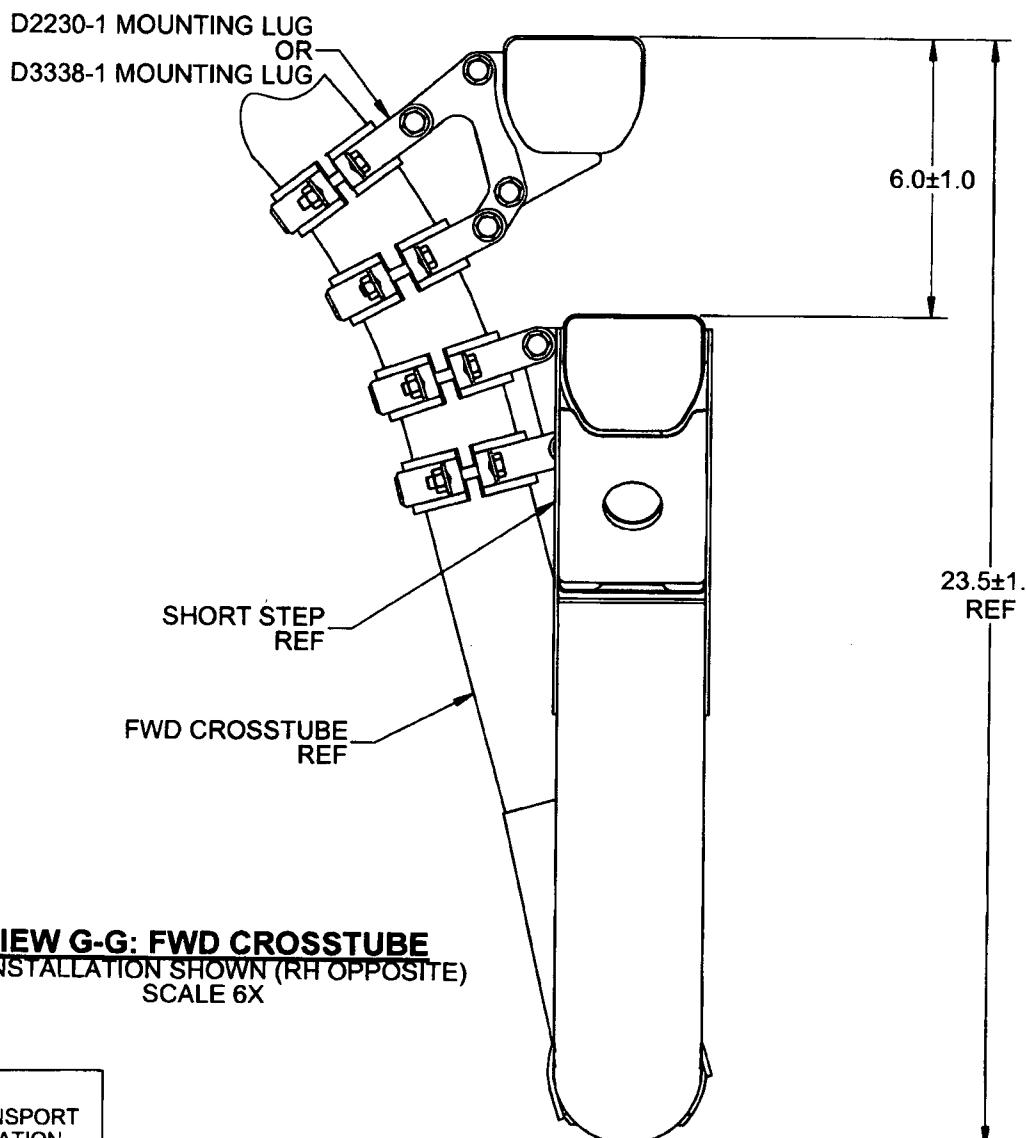
There is a negligible weight change associated with this modification.

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
APPROVED	
BY:	<i>[Signature]</i>
D. SHEPHERD (DE # 02)	
DATE:	14.12.04
CERT. NO.:	SH92-6
ISSUE NO.:	11

A	NEW ISSUE	MB	14.10.22
REV.	1	DESCRIPTION	BY DATE
DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>		
MFG. APPR.	N/A		
APPROVED	<i>[Signature]</i>		
DE APPR.	<i>[Signature]</i>		
DATE	14.10.22	TITLE	SCALE
		INSTALLATION OPTION NTS	
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D350-591-133 MAINTENANCE STEP
LH INSTALLATION SHOWN (RH OPPOSITE)

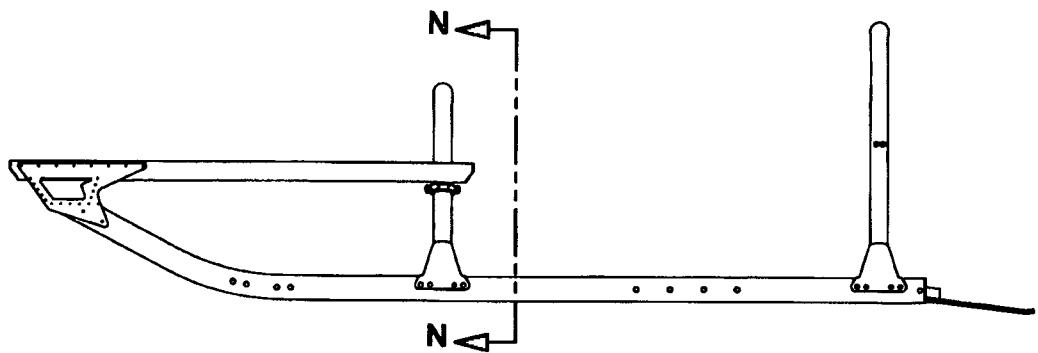


VIEW G-G: FWD CROSSTUBE
LH INSTALLATION SHOWN (RH OPPOSITE)
SCALE 6X

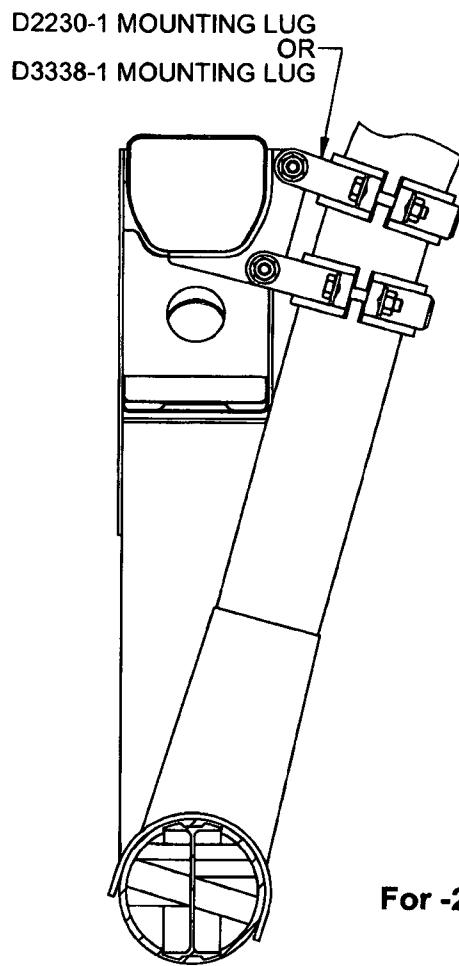
CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED <i>[Signature]</i>	
BY: D. SHEPHERD (DE # 02)	
DATE: 14.12.04	
CERT. NO.: SH92-6	
ISSUE NO.: 11	

REF. FIGURE 11 / 32-11 of D350-591 / ICA-D350-591
Maintenance Step

DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD			
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA			
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A		
MFG. APPR.	<i>N/A</i>	DSI 9712	SHEET 2 OF 3		
APPROVED	<i>[Signature]</i>	TITLE			
DE APPR.	<i>[Signature]</i>	SCALE			
DATE	14.10.22	INSTALLATION OPTION			
NTS					
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REF. FIGURE 13 / 32-13 of D350-591 / ICA-D350-591
D350-591-213 Heli-Access-Step, Short Step - High Skid, LH (shown)
D350-591-214 Heli-Access-Step, Short Step - High Skid, RH (opposite)



SECTION N-N
For -213/-214 Steps only
SCALE 6X

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
APPROVED	
BY:	D. SHEPHERD (DE # 02)
DATE:	14.12.04
CERT. NO.:	SH92-6
ISSUE NO.:	11

REF. FIGURE 19 / 32-19 of D350-591 / ICA-D350-591
Crosstube Attachment

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		DSI 9712	SHEET 3 OF 3
APPROVED		TITLE	SCALE
DE APPR.		INSTALLATION OPTION	NTS
DATE	14.10.22	COPYRIGHT © 2014 BY DART AEROSPACE LTD	
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